

S/N 09/467,405



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: ENGEL ET AL. Examiner: C. BUSHEY
Serial No.: 09/467,405 Group Art Unit: 1724
Filed: DECEMBER 20, 1999 Docket No.: 758.556USC4
Title: REVERSE FLOW AIR FILTER ARRANGEMENT AND METHOD

CERTIFICATE UNDER 37 CFR 1.8:

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on January 22, 2001.


Kate Gannon

DECLARATION OF DONALD FRANCIS ENGEL

Assistant Commissioner for Patents
Washington, D. C. 20231

Dear Sir:

1. My name is Donald Francis Engel. I am one of the persons identified as an inventor for this patent application.
2. I understand that this patent application is a continuation of Application Serial No. 09/198,846, filed November 24, 1998, now U.S. Patent 6,004,336. Application 09/198,846 is a continuation of Application Serial No. 08/884,205, filed June 27, 1997, now U.S. Patent 5,938,804. Application 08/884,205 is a continuation-in-part of Application Serial No. 08/742,244, filed October 31, 1996, now U.S. Patent 5,690,712. Application 08/742,244 is a divisional of Application Serial No. 08/344,371, filed November 23, 1994, now U.S. Patent 5,613,992. I was named as the sole inventor on both Application Serial No. 08/742,244 and Application Serial No. 08/344,371.

3. I understand that this application names inventors in addition to me. I understand that the additional inventors named for this application are: Dolan Bartels; John Hacker; Bruce Crenshaw; and Don Harold, who is now deceased.

4. Attached as Exhibit A are the pending independent claims (claims 17 and 34) for this application. I have reviewed these claims. I believe that I am the sole inventor of these

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claims. My inventions of claims 17 and 34 were described in the originally filed application, Serial No. 08/344,371.

5. I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: 1-11-01

Donald Francis Engel
Donald Francis Engel

17. A filter element comprising:

- (a) a cylindrical extension of media defining an open filter interior;
- (b) a first end cap at one end of said cylindrical extension of media; said first end cap having a central opening, and an annular sealing portion;
 - (i) said annular sealing portion comprising a polymeric material and being oriented to form a first radial seal with a housing, when the filter element is operably positioned in the housing;
- (c) a second end cap at an opposite end of said cylindrical extension of media; said second end cap having a central aperture, and an annular sealing portion;
 - (i) said second end cap annular sealing portion comprising a polymeric material and being oriented to form a second radial seal with a housing, when the filter element is operably positioned in the housing.

34. A filter element comprising:

- (a) a cylindrical extension of media defining an open filter interior;
- (b) a first end cap at one end of said cylindrical extension of media; said first end cap having a central opening, and an annular sealing portion;
 - (i) said annular sealing portion comprising a polymeric material and being oriented to form a radial seal with a housing, when the filter element is operably positioned in the housing;
 - (ii) said annular sealing portion being oriented along an interior portion of said first end cap; and
- (c) a second end cap at an opposite end of said cylindrical extension of media; said second end cap having a central aperture, and a sealing gasket;
 - (i) said sealing gasket being oriented to form an axial seal with a housing, when the filter element is operably positioned in the housing.

